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(71) Applicant (for all designated States except US): DAKO-CYTOMATION DENMARK A/S [DK/DK]; Produktionsvej 42, DK-2600 Glostrup (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FALB, Peter [US/US]; 70 Hersey Street, Hingham, MA 02043 (US). THAXTER, Charles, W., Sr. [US/US]; 35 Shattuck Street, Pepperell, MA 01463 (US). CLARE, David [GB/GB]; 102 Wenham Street, Danvers, MA 01923 (GB). SACCO, Victor, Jr. [US/US]; 1 Independence Drive #12, Methuen, MA 01844 (US). LEON, Scott [US/US]; 8116

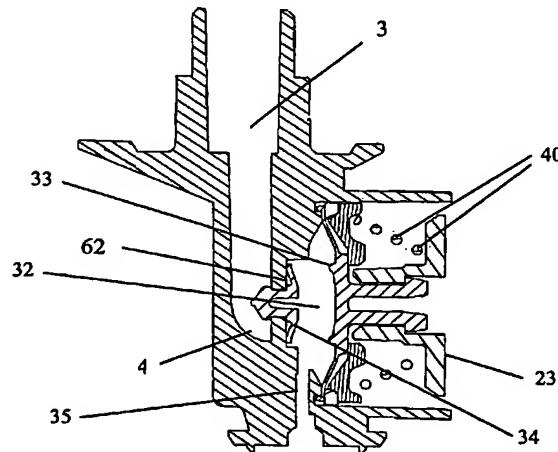
(74) Agent: RESSUE, Nicole, A.; Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, CO 80521 (US).

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(54) Title: DIAPHRAM METERING CHAMBER DISPENSING SYSTEMS



(57) Abstract: This invention describes a method and apparatus for a dispenser assembly (1) suitable for dispensing reagent in an automatic system. In embodiments, the present invention may include a metering chamber (32) that accurately controls the amount of fluid dispensed. In other embodiments, the amount of fluid may be controlled by the action of a flexible diaphragm (33), which may be assembled into a cavity of a dispenser housing creating a metering chamber. In another embodiment, a volume created by a metering chamber may determine the volume of dispensed fluid. When a diaphragm is compressed from its free or uncompressed position (36) to an inverted or compressed position (37), it may substantially conform to the inner surface of the metering chamber. Fluid enters a metering chamber through an inlet unidirectional valve (34) and exits a metering chamber through an outlet unidirectional valve (25).



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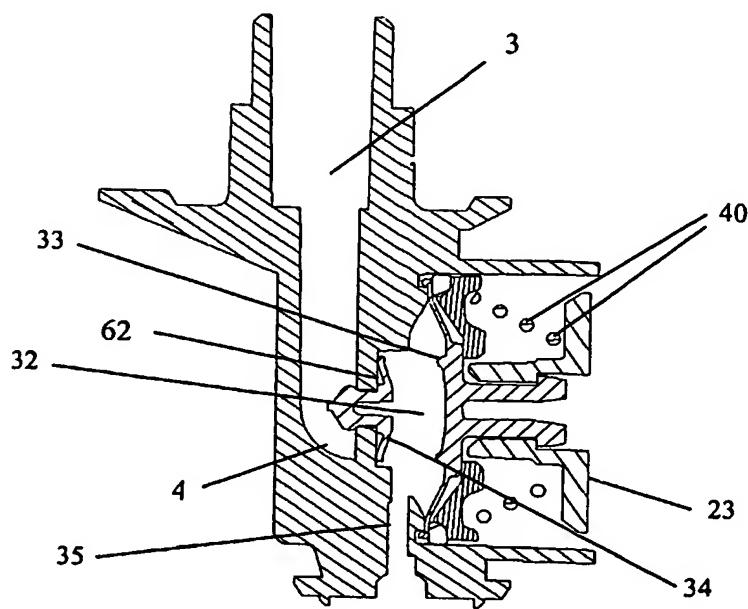
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